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1   Bell: bit-encoding online memory leak detection   ◼
    Michael D. Bond, Kathryn S. McKinley
    October 2006 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , ACM**
           SIGARCH Computer Architecture News , Proceedings of the 12th
           international conference on Architectural support for programming
           languages and operating systems ASPLOS-XII, Volume 41 , 40 , 34 Issue 11 , 5 ,
           5
    Publisher: ACM Press
    Full text available: 🗋 pdf(445.91 KB)   Additional Information: full citation, abstract, references, index terms

    Memory leaks compromise availability and security by crippling performance and crashing
    programs. Leaks are difficult to diagnose because they have no immediate symptoms.
    Online leak detection tools benefit from storing and reporting per-object *sites* (e.g.,
    allocation sites) for potentially leaking objects. In programs with many small objects, per-
    object sites add high space overhead, limiting their use in production environments. This
    paper introduces *Bit-Encoding Leak Location* (Be ...

    Keywords: low-overhead monitoring, managed languages, memory leaks, probabilistic
    approaches

2   Optimally profiling and tracing programs   ◼
    Thomas Ball, James R. Larus
    July 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
           Volume 16 Issue 4
    Publisher: ACM Press

    Full text available: 🗋 pdf(2.84 MB)   Additional Information: full citation, abstract, references, citings, index
                                                              terms, review

    This paper describes algorithms for inserting monitoring code to profile and trace
    programs. These algorithms greatly reduce the cost of measuring programs with respect
    to the commonly used technique of placing code in each basic block. Program profiling
    counts the number of times each basic block in a program executes. Instruction tracing
    records the sequence of basic blocks traversed in a program execution. The algorithms
    optimize the placement of counting/tracing code with respect to the ...

    Keywords: control-flow graph, instruction tracing, instrumentation, profiling